

PROPOSED OFFICE BUILDING

PREPARED FOR

NEW WINDSOR BUSINESS PARK ASSOCIATES

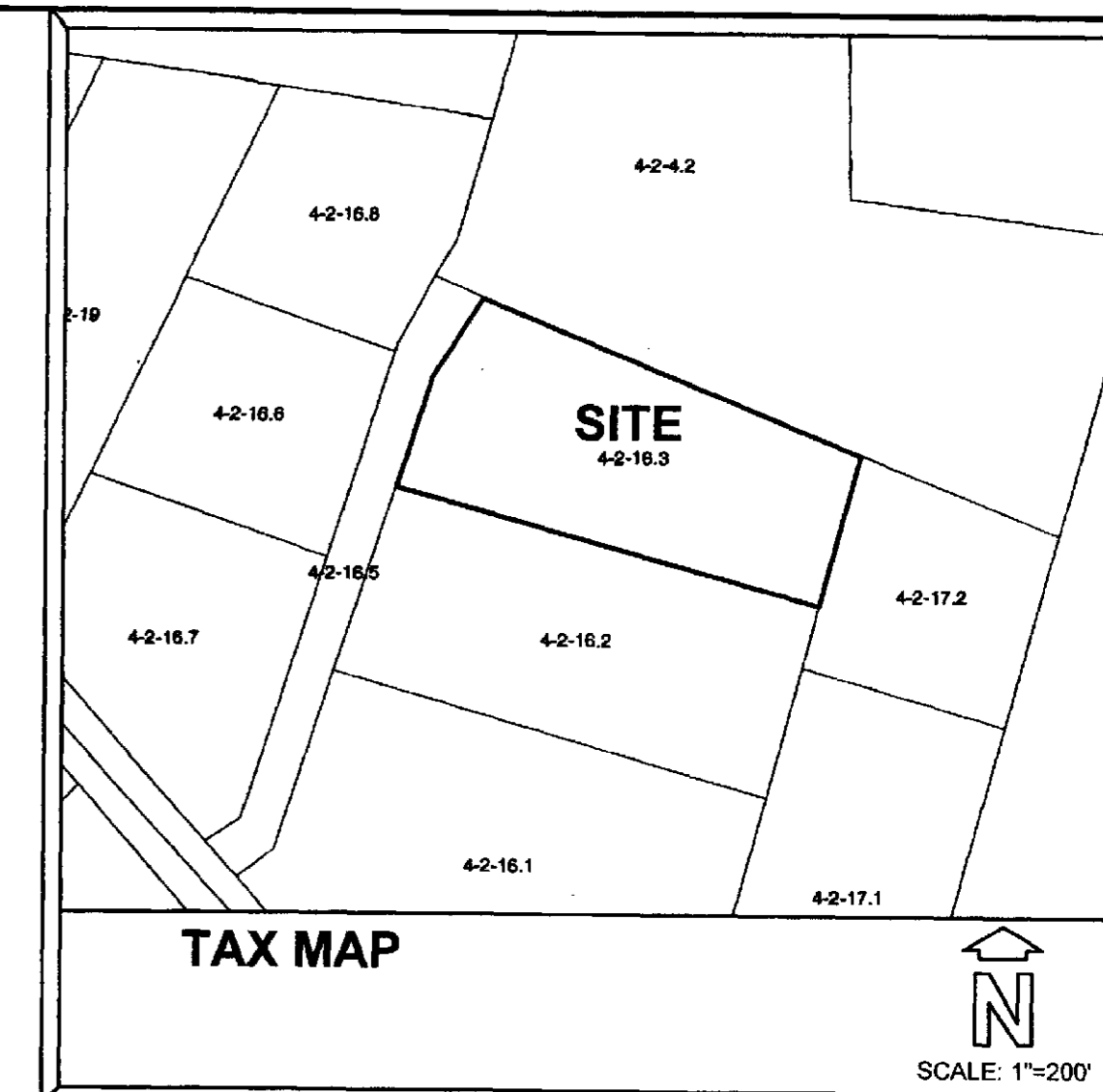
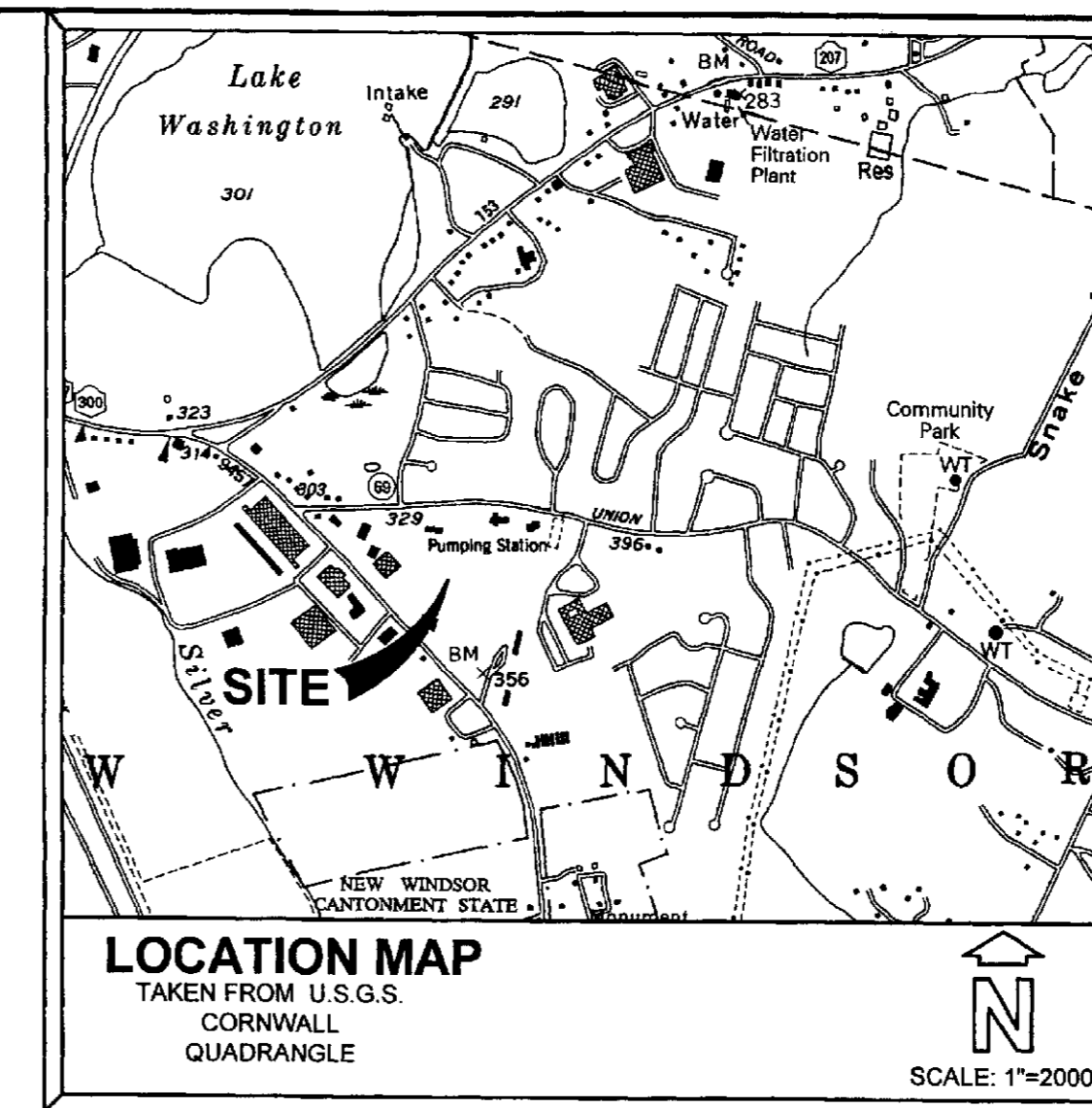
TOWN OF NEW WINDSOR, ORANGE COUNTY, NEW YORK

PREPARED BY
DEWKETT ENGINEERING, PC
187 EAST MARKET STREET
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APPLICANT
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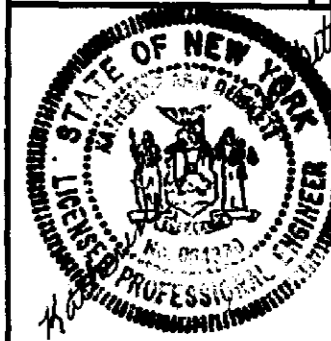
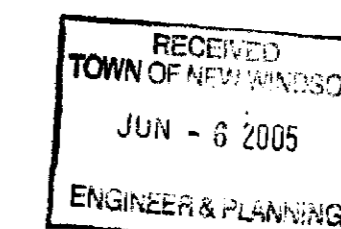
LIST OF DRAWINGS:

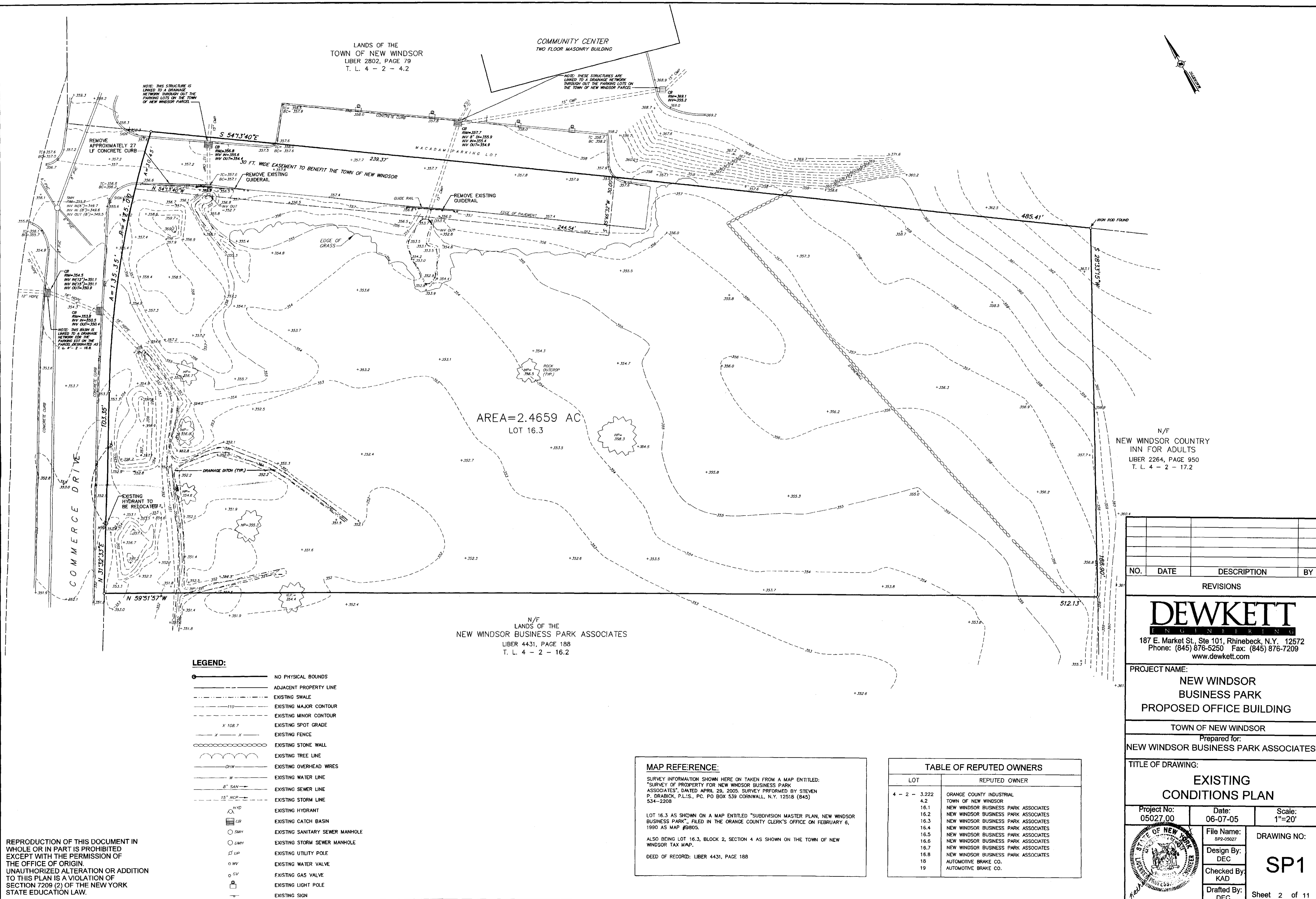
SHEET	PAGE	TITLE
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SP2	3	SITE PLAN
SP3	4	UTILITY AND GRADING PLAN
SP4	5	SEDIMENT AND EROSION CONTROL PLAN
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D3	9	WATER DETAILS
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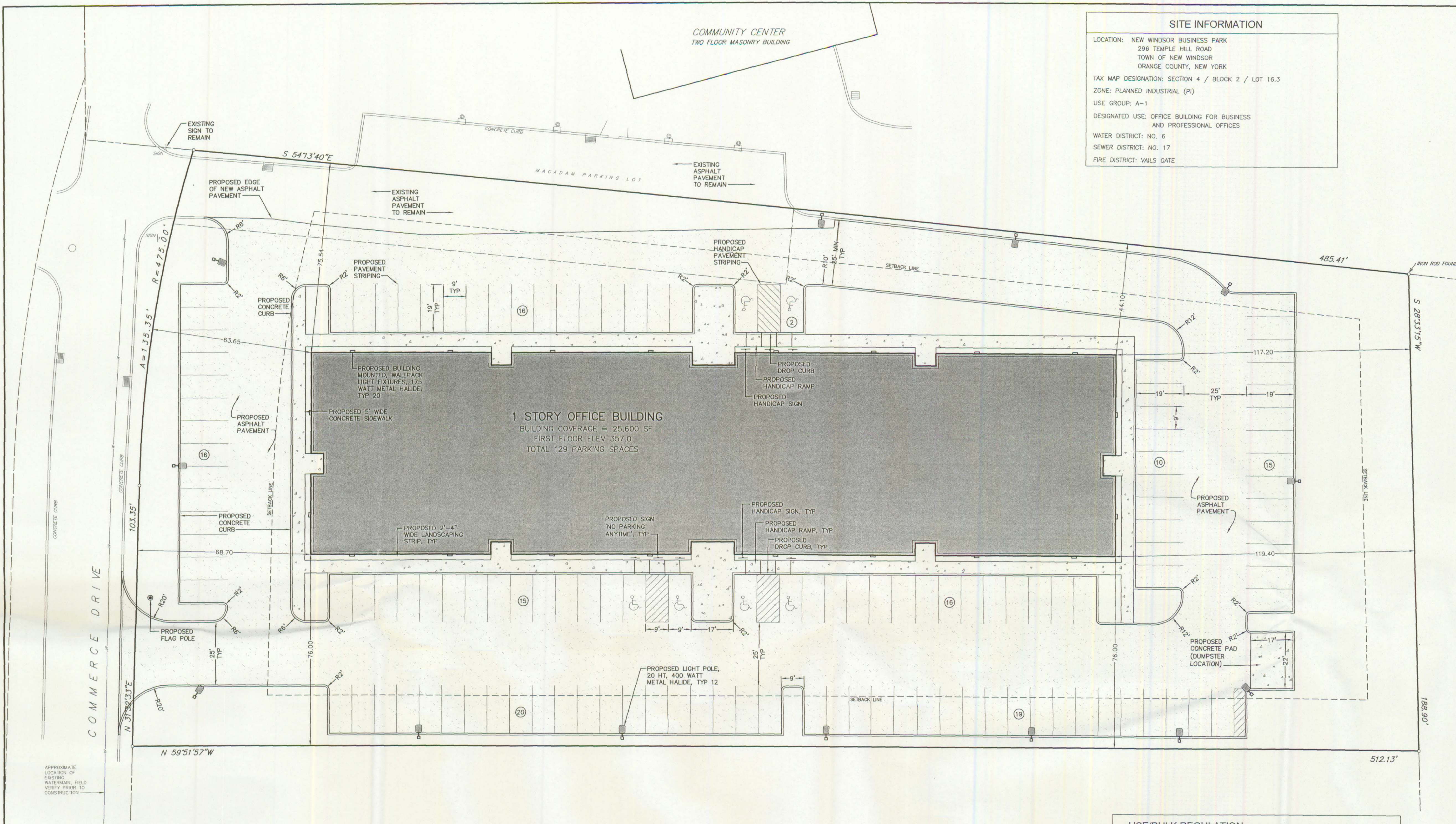


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DEWKETT ENGINEERING 187 E. Market St., Ste 101, Rhinebeck, N.Y. 12572 Phone: (845) 876-5250 Fax: (845) 876-7209 www.dewkett.com			
PROJECT NAME: NEW WINDSOR BUSINESS PARK PROPOSED OFFICE BUILDING			
TOWN OF NEW WINDSOR Prepared for: NEW WINDSOR BUSINESS PARK ASSOCIATES			
TITLE OF DRAWING: TITLE SHEET			
Project No: 05027.00	Date: 06-07-05	Scale: AS SHOWN	
File Name: T1-05027			DRAWING NO: T1
Design By: DEC			
Checked By: KAD			
Drafted By: DEC			Sheet 1 of 11

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SITE INFORMATION

LOCATION: NEW WINDSOR BUSINESS PARK
296 TEMPLE HILL ROAD
TOWN OF NEW WINDSOR
ORANGE COUNTY, NEW YORK

TAX MAP DESIGNATION: SECTION 4 / BLOCK 2 / LOT 16.3

ZONE: PLANNED INDUSTRIAL (PI)

USE GROUP: A-1

DESIGNATED USE: OFFICE BUILDING FOR BUSINESS AND PROFESSIONAL OFFICES

WATER DISTRICT: NO. 6

SEWER DISTRICT: NO. 17

FIRE DISTRICT: VAILS GATE

- LEGEND:**
- NO PHYSICAL BOUNDS
 - ADJACENT PROPERTY LINE
 - EXISTING STONE WALL
 - EXISTING TREE LINE
 - EXISTING HYDRANT
 - EXISTING CATCH BASIN
 - EXISTING SANITARY SEWER MANHOLE
 - EXISTING STORM SEWER MANHOLE
 - EXISTING UTILITY POLE
 - EXISTING WATER VALVE
 - EXISTING GAS VALVE
 - EXISTING LIGHT POLE
 - EXISTING SIGN
 - BUILDING SETBACK LINE
 - PROPOSED LIGHT POLE
 - PROPOSED SIGN

1	06/07/05	REV PER PB COMMENTS	KAD
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PROJECT NAME:
**NEW WINDSOR
BUSINESS PARK
PROPOSED OFFICE BUILDING**

TOWN OF NEW WINDSOR
Prepared for:
NEW WINDSOR BUSINESS PARK ASSOCIATES

TITLE OF DRAWING:
SITE PLAN

Project No: 05027.00	Date: 04-18-05	Scale: 1"=20'
File Name: SP2-05027	Design By: DEC	DRAWING NO: SP2
Checked By: KAD	Drafted By: DEC	Sheet 3 of 11

USE/BULK REGULATION ZONE: PLANNED INDUSTRIAL (PI)		
ITEM	REQUIRED	PROVIDED
LOT AREA	40,000 SF	106,838 SF.
LOT WIDTH	150' MIN	189.19'
FRONT YARD	50' MIN	63.65'
SIDE YARD/TOTAL	15/40' MIN	44' AND 76' / 120' TOTAL
REAR YARD	20' MIN	117.20'
STREET FRONTAGE	N/A	238.7'
BUILDING HEIGHT	12 INCHES/FOOT OF DISTANCE TO NEAREST PROPERTY LINE 44'/1 = 44'	22'
TOTAL FLOOR AREA		25,600 SF
FLOOR AREA RATIO	0.6 MAX	25,600 / 106,838 = .24
PARKING	25,600/200 SF = 128 SPACES	129 SPACES
BUILDING COVERAGE		25,600 SF (24% OF TOTAL AREA)
PAVEMENT COVERAGE		52,679 SF (49% OF TOTAL AREA)
TOTAL DEVELOPMENTAL COVERAGE	85% MAX	73%

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LEGEND:

- NO PHYSICAL BOUNDS
- ADJACENT PROPERTY LINE
- EXISTING SWALE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SPOT GRADE
- EXISTING FENCE
- EXISTING STONE WALL
- EXISTING OVERHEAD WIRES
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING STORM LINE
- EXISTING HYDRANT
- EXISTING CATCH BASIN
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING LIGHT POLE
- EXISTING SIGN
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- EROSION CONTROL BARRIER/STRAW
- EROSION CONTROL BARRIER/SILT FENCE
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATERLINE
- PROPOSED STORM DRAIN LINE
- PROPOSED WATER VALVE
- PROPOSED DRAINAGE STRUCTURE WITH HAYBALE INLET PROTECTION
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE

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PROJECT NAME:
**NEW WINDSOR
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PROPOSED OFFICE BUILDING**

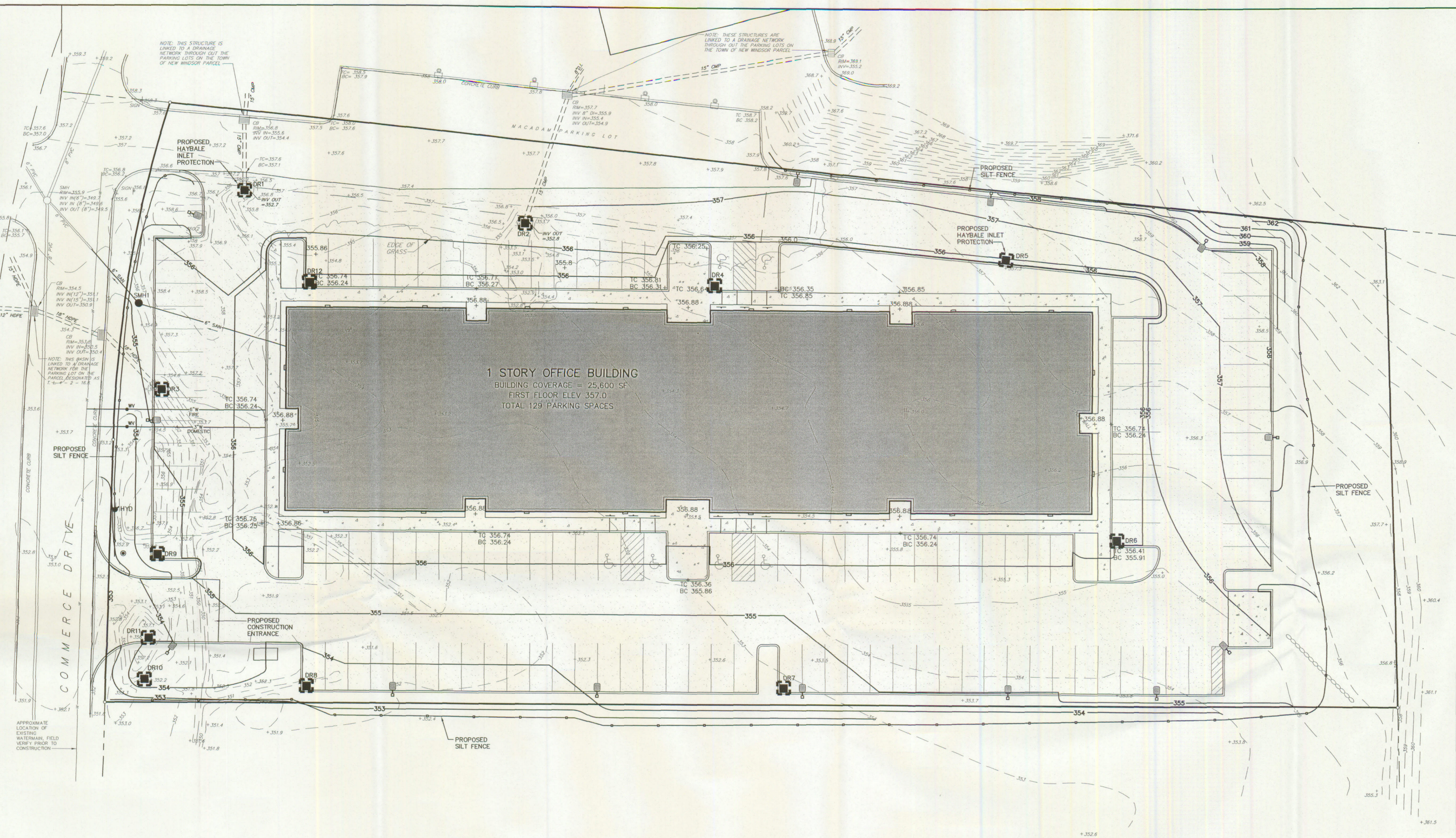
TOWN OF NEW WINDSOR
Prepared for:
NEW WINDSOR BUSINESS PARK ASSOCIATES

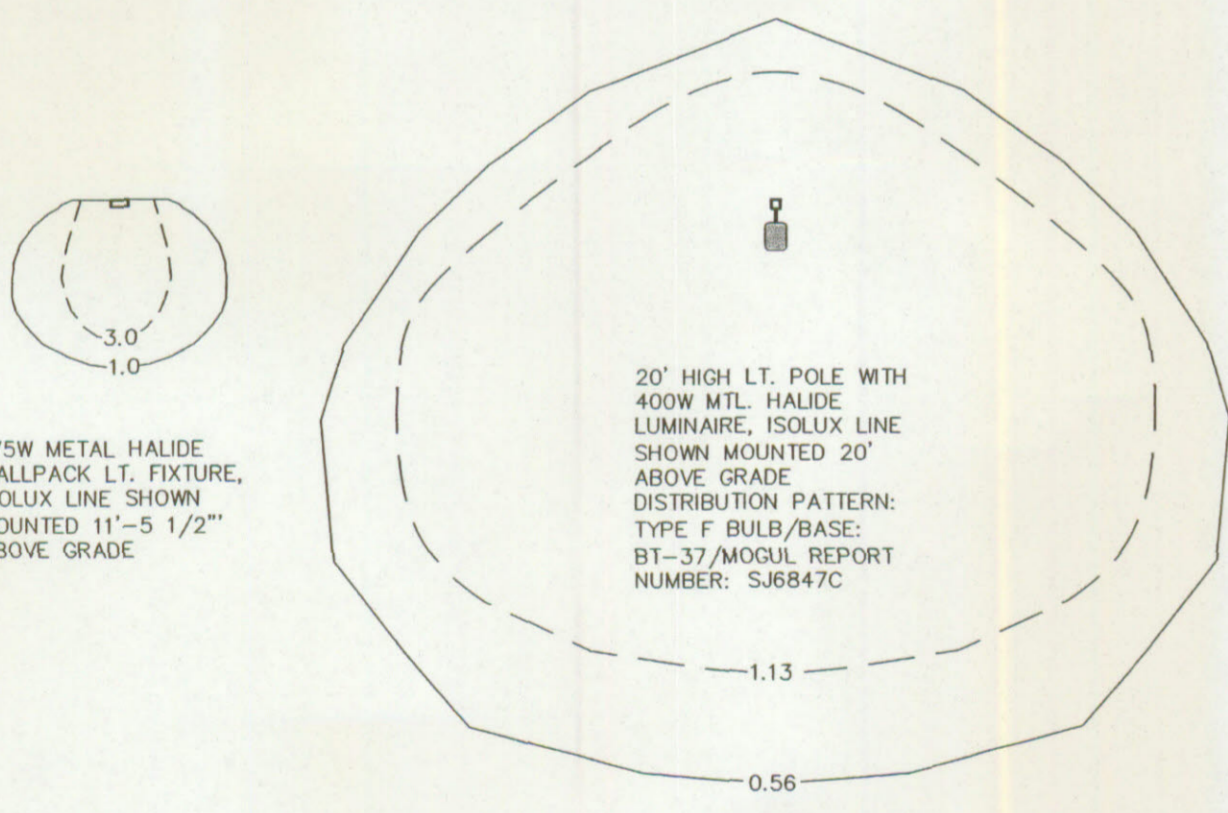
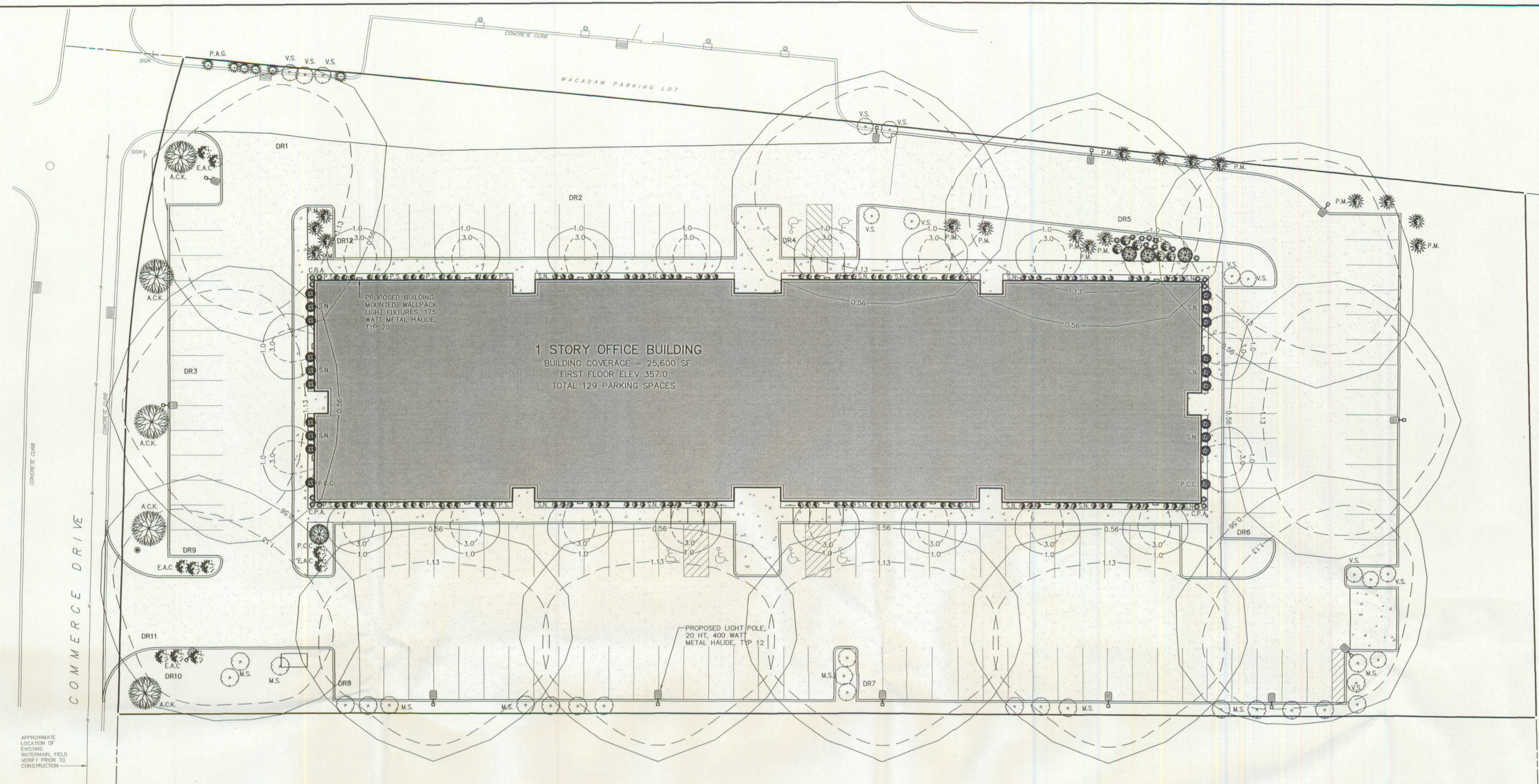
TITLE OF DRAWING:
**SEDIMENTATION AND
EROSION CONTROL PLAN**

Project No: 05027.00	Date: 06/07/05	Scale: 1"=20'
File Name: SP4-05027	Design By: DEC	DRAWING NO: SP4
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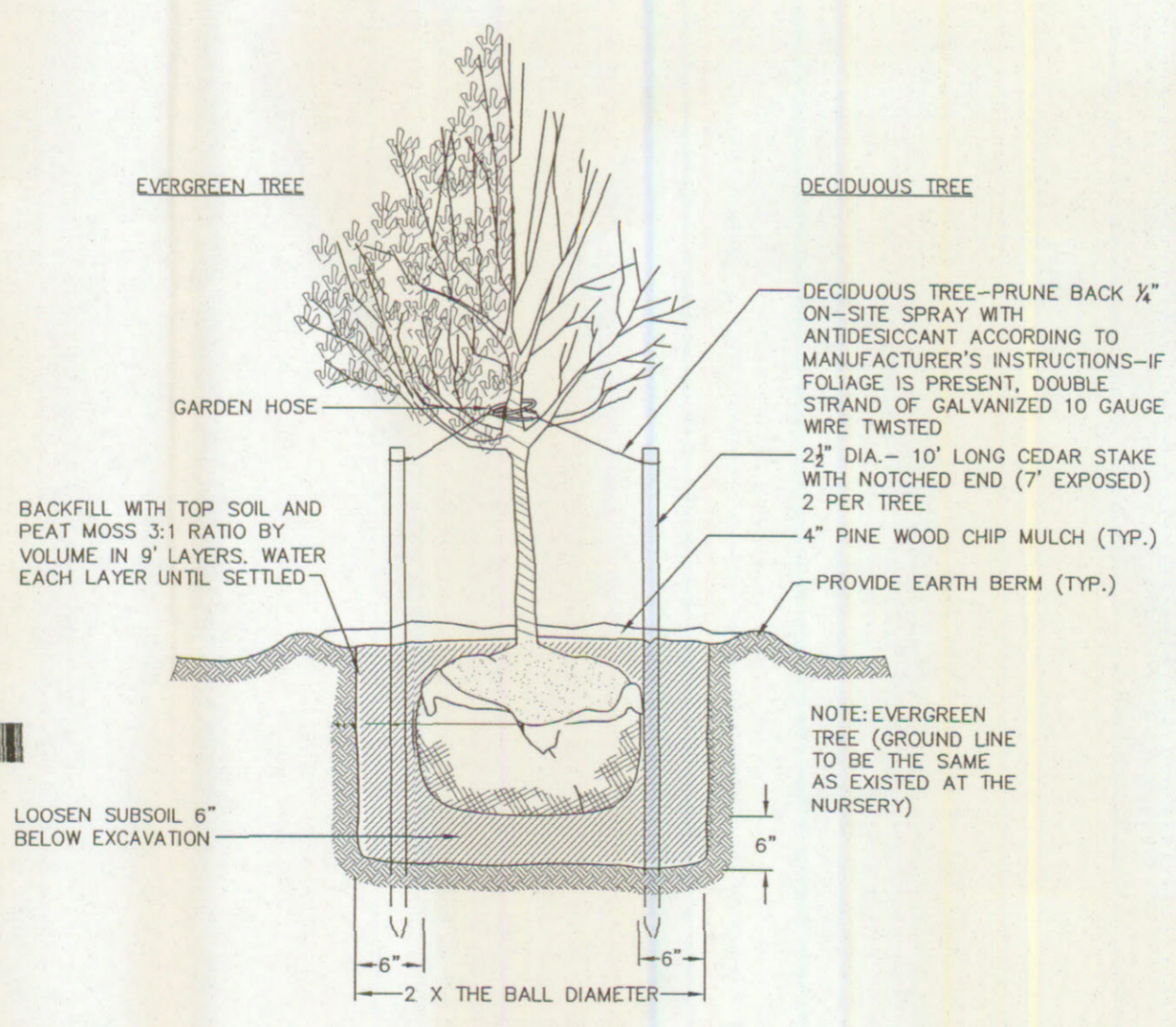


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PLANTING SCHEDULE				
KEY	QTY	BOTANICAL NAME	COMMON NAME	REMARKS
A.C.K.	5	ACER PLAT	CRIMSON KING MAPLE	
B.R.G.	41	BERBERIS	ROSEGLOW BARBERRY	
C.P.A.	3	CHAM. PISIFERA AUREA	GOLD MOUND CYPRESS	
E.A.C.	6	EUONYMUS ALATUS	COMPACT BURNING BUSH	
I.G.C.	8	ILEX GLABRA COMPACTA	INKBERRY	
M.S.	14	MALUS SPROES	FLOWERING CRABAPPLE	
P.A.G.	9	PICEA ABIES GLAUCA	ALBERTA SPRUCE	
P.C.C.	5	PYRUS CALLERYANA	CHANTICLEER PEAR	
P.M.	17	PSEUDOTSUGA MENZELL	DOUGLAS FIR	
P.S.	8	POTENTILLA	BUTTERCUP SHRUB	
S.N.	23	SPIREA NIPPONICUM	SNOW MOUND SPIREA	
V.S.	12	VIBURNUM SPECIES		



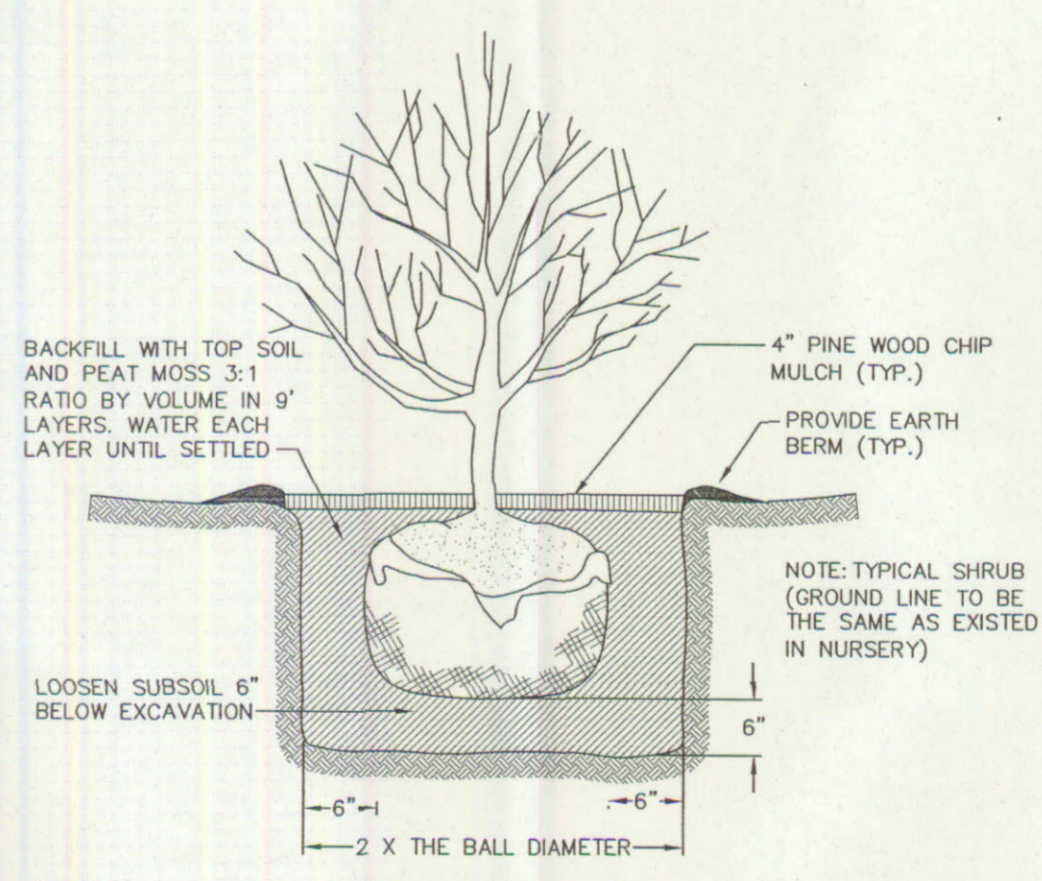
SEEDING NOTES

1. ALL DISTURBED AREAS, EXPOSED SLOPES AND ALL GRADED AREAS SHALL BE SEEDED WITH THE FOLLOWING GRASS SEED MIX, IMMEDIATELY UPON COMPLETION OF ITS CONSTRUCTION AT A RATE OF 50 POUNDS PER ACRE IN THE FOLLOWING PROPORTIONS:

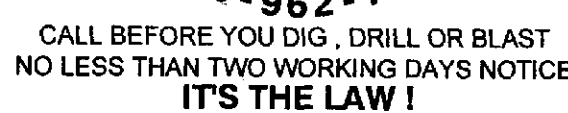
KENTUCKY BLUEGRASS	40%
CREeping RED FESCUE	40%
RYEGRASS	20%

2. GRASS SEED MIX MAY BE APPLIED BY EITHER MECHANICAL OR HYDROSEEDING METHODS. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, CONSTRUCTION MATERIALS, SECTION 610-3.02, METHOD NO. 1.

3. SEEDED AREAS SHALL BE MULCHED WITH STRAW AT A RATE OF 2 TONS PER ACRE, OR 90 LBS. PER 1,000 SQUARE FEET, SUCH THAT IT FORMS A CONTINUOUS BLANKET.



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LANDSCAPING AND			
LIGHTING PLAN			
Project No:	Date:	Scale:	
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SP5-05027		SP5	
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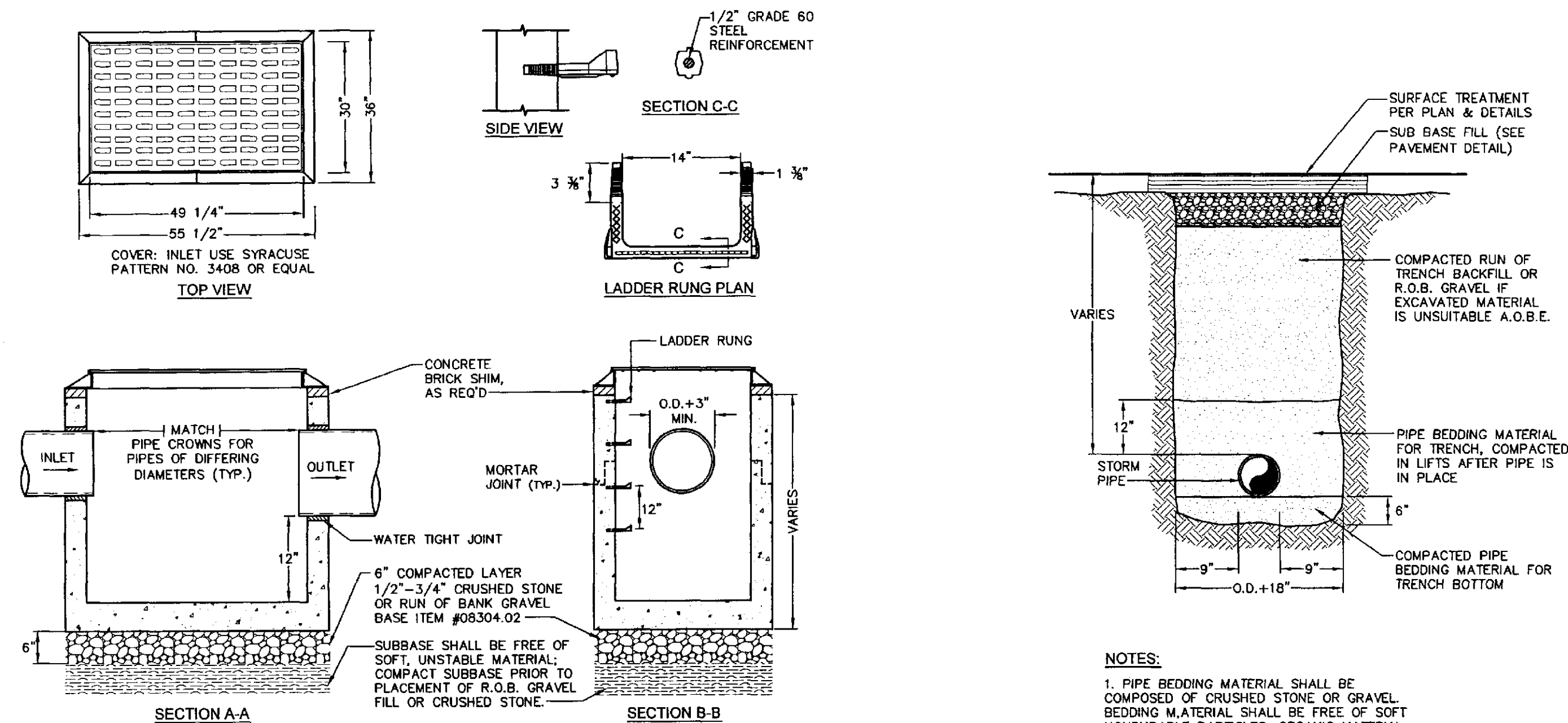
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Project No: 05027.00	Date: 06-07-05	Scale: AS SHOWN
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Sheet 7 of 11

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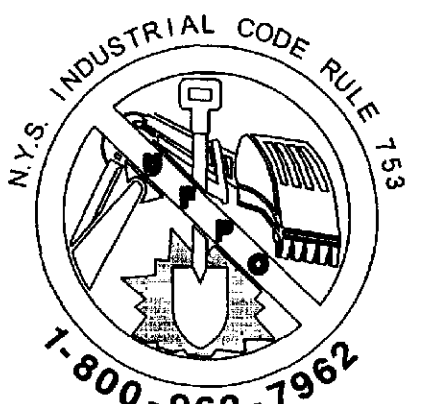
- NOTES:**
- CATCH BASIN SHALL BE PRECAST CONCRETE, DESIGNED FOR H-20 VEHICULAR LOADING AND 25% IMPACT.
 - FRAME AND COVER SHALL BE DESIGNED FOR H-20 VEHICULAR LOADING AND 25% IMPACT.
 - CONCRETE CATCH BASIN CASTING CLEAR OPENING DIMENSION MUST MATCH FRAME AND GRATE CLEAR OPENING DIMENSION FOR H-20 VEHICULAR LOADING.
 - CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE TOP OF THE CONCRETE BASE SHALL BE PROVIDED WITH STEPS.
 - BACKFILL USING SELECT MATERIAL, COMPACTED IN 6" LIFTS.
 - SUMPS FOR CATCH BASINS SHALL BE 12".
- 1. PIPE BEDDING MATERIAL SHALL BE COMPOSED OF CRUSHED STONE OR GRAVEL. BEDDING MATERIAL SHALL BE FREE OF SOFT NONDURABLE PARTICLES, ORGANIC MATERIAL AND THIN OR ELONGATED PARTICLES WITH THE FOLLOWING GRADATION REQUIREMENTS:**
- | SIZE DESIGNATION | % PASSING |
|------------------|-----------|
| 2" | 100 |
| 1" | 95-100 |
| 1/4" | 0-15 |
| NO. 40 | 0-5 |
- 2. BEDDING MATERIAL SHALL BE STOCKPILED.**

1 CATCH BASIN DETAIL
 D2 SCALE: NOT TO SCALE

2 TYPICAL STORM PIPE IN TRENCH DETAIL
 D2 SCALE: NOT TO SCALE

STORM WATER MANAGEMENT AND EROSION CONTROL NOTES

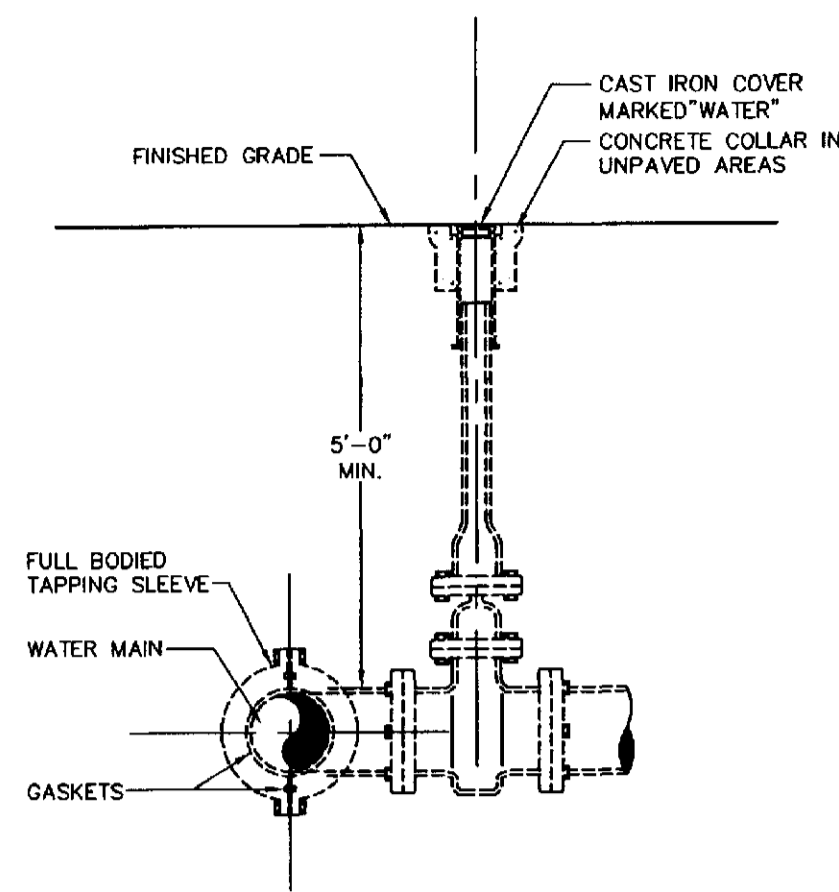
- ALL EROSION CONTROL MEASURES EMPLOYED DURING CONSTRUCTION PROCESS SHALL BE INSPECTED BY THE CONTRACTOR IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE. ALL EROSION CONTROL STRUCTURES SHALL BE REPAIRED AND MAINTAINED AS NECESSARY BY THE CONTRACTOR.
- ALL STORM WATER MANAGEMENT STRUCTURES (I.E. CATCH BASIN, ETC.) SHALL BE REGULARLY INSPECTED FOR SEDIMENT ACCUMULATIONS. CATCH BASIN SHALL BE CLEANED WHEN SEDIMENT DEPTH REACHES A MAXIMUM OF 1/2 THE AVAILABLE SUMP DEPTH.
- IF THE CONSTRUCTION PROCESS EXPOSES SIGNIFICANT SOIL AREAS (NO MORE THAN 5 ACRES) FOR ANY LENGTH OF TIME, INCREASED POTENTIAL FOR EROSION AND DUST CREATION WILL OCCUR. THE CONTRACTOR SHALL PROVIDE, AT THE TOWN ENGINEER'S DIRECTION, SUPPLEMENTAL SURFACE TREATMENTS (SUCH AS HAY BALE LINES, TEMPORARY SWALES, RIP-RAP INTERCEPT POOLS, AND DUST CONTROL MEASURES) MAY BE REQUIRED.
- ALL EROSION CONTROL INSTALLATION AND MAINTENANCE MEASURES SHALL MEET THE REQUIREMENTS OF THE NEW YORK STATE SOIL AND WATER CONSERVATION SOCIETY DOCUMENT "GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL," UNITED STATES DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION GUIDELINES, AND THE LATEST "URBAN EROSION AND SEDIMENT CONTROL GUIDE BOOK" OF THE DUTCHESS COUNTY SOIL AND WATER CONSERVATION DISTRICT.
- ANY PILE OF CONSTRUCTION DEBRIS, PARKING LOT MACADAM, OR OTHER POTENTIALLY EROSION MATERIAL TEMPORARILY STOCKPILED ON THE SITE DURING THE CONSTRUCTION PROCESS SHALL BE LOCATED IN AN AREA AWAY FROM STORM DRAINAGE AND SHALL BE PROPERLY PROTECTED FROM EROSION BY A SURROUNDING SILT FENCE OR HAY BALE BARRIER.
- PERMANENT SEEDED AREAS FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH THIS SHEET.
- AREAS UNDERGOING CLEARING OR GRADING AND WHERE WORK IS DELAYED OR COMPLETED AND WILL NOT BE RE-DISTURBED FOR A PERIOD OF 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT VEGETATIVE COVER WITHIN 14 DAYS. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILITY. TEMPORARY COVER: RAPIDLY GERMINATING ANNUAL GRASS = 30 LBS PER ACRE. PERENNIAL RYE GRASS = 100 LBS PER ACRE. CEREAL RYE = 30 LBS PER ACRE. PERMANENT COVER: SEE DETAIL THIS SHEET.
- GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEED BED PREPARATION, SEEDING AND MULCH APPLICATION.
- WHERE TOPSOIL IS TO BE PLACED, REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3" IN DIAMETER, AND OTHER LITTER FROM UNDERLYING SOIL SURFACE. SCARIFY ALL COMPACTED SOILS PRIOR TO APPLYING TOPSOIL.
- TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OVER THE TREATED AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER PUDDLES.
- ON-SITE DUST CONTROL SHALL BE ACCOMPLISHED BY STANDARD METHODS OF LIGHTLY WATERING ALL EXPOSED SOIL AND RAPIDLY STABILIZING THE REGRADED AREAS WITH TOPSOIL, LOAM AND/OR SEEDING.
- THE TOWN ENGINEER, TOWN WATER DEPARTMENT, TOWN SEWER DEPARTMENT, TOWN BUILDING DEPARTMENT AND PROJECT ENGINEER SHALL BE NOTIFIED NO LESS THAN 48 HOURS PRIOR TO THE START OF ANY SITE WORK AND BY SUCH NOTIFICATION SHALL BE PROVIDED WITH THE NAME AND TELEPHONE NUMBER OF THE GENERAL CONTRACTOR RESPONSIBLE FOR SUCH WORK.
- THE TOWN ENGINEER MAY INSPECT EROSION AND SEDIMENT CONTROL PRACTICES ON THE SITE DURING CONSTRUCTION AND RECOMMEND THAT THE CONTRACTOR INSTALL ADDITIONAL EROSION CONTROL MEASURES IF DEEMED NECESSARY TO PROTECT ANY UNDISTURBED AREAS OF THE SITE. ANY SUCH REQUESTS SHALL BE MADE DIRECTLY TO THE CONTRACTOR AND FOLLOWED UP WITH A WRITTEN NOTIFICATION TO THE DEVELOPER. IN ADDITION, THE TOWN ENGINEER AND QUALIFIED PROFESSIONAL (SEE NOTES 14 AND 15) SHALL BE CONSULTED ON ANY SPECIAL ADDITIONS OR DELETIONS OF EROSION CONTROL MEASURES WARRANTED BY CHANGING FIELD CONDITIONS. THE NYSDEC NOI MAY NEED TO BE UPDATED AS A RESULT OF THESE CHANGES.
- THE CONTRACTOR/OWNER SHALL HAVE A QUALIFIED PROFESSIONAL, AS DESCRIBED WITHIN THE NYSDEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT NO. GP-02-01, CONDUCT SITE INSPECTIONS PRIOR TO CONSTRUCTION FOLLOWING THE COMMENCEMENT OF CONSTRUCTION AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. REFER TO SPFP FOR WHAT EACH INSPECTION SHALL CONSIST OF.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, A QUALIFIED PROFESSIONAL IN SEDIMENT AND EROSION CONTROL (HIRED BY CONTRACTOR/OWNER) SHALL CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROL STRUCTURES AS DEPICTED ON THE PLANS HAVE BEEN ADEQUATELY INSTALLED AND IMPLEMENTED. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER ONCE THE EROSION AND SEDIMENT CONTROL STRUCTURES HAVE BEEN INSTALLED. REFER TO "STORMWATER POLLUTION PREVENTION PLAN" FOR WHAT EACH INSPECTION SHALL CONSIST OF.
- THE CONTRACTOR/OWNER SHALL MAINTAIN A RECORD OF ALL EROSION AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A LOG BOOK. THE SITE LOG BOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE PERMITTING AUTHORITY. THE OWNER/CONTRACTOR SHALL POST AT THE SITE, IN A PUBLICLY-ACCESSIBLE LOCATION, A SUMMARY OF THE SITE INSPECTION ACTIVITIES ON A MONTHLY BASIS.
- CONTRACTOR/OWNER SHALL FILE A NOTICE OF INTENT (NOI) WITH THE NYSDEC PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES AND A NOTICE OF TERMINATION (NOT) WITH NYSDEC FOLLOWING CONSTRUCTION ACTIVITIES.
- IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT A DEWATERING PIT (A.K.A. SUMP PIT) TO TRAP AND FILTER WATER FOR PUMPING TO A SUITABLE DISCHARGE AREA. THE DEWATERING PIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL, LATEST EDITION.
- WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED PER THE APPROVAL OF THE TOWN ENGINEER.
- UPON COMPLETION OF CONSTRUCTION, THE OWNER SHALL BE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF THE STORM WATER MANAGEMENT SYSTEM. THE STORM WATER MANAGEMENT SYSTEM SHALL BE INSPECTED QUARTERLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT. THE OWNER SHALL MAINTAIN A RECORD OF INSPECTION AND MAINTENANCE REPORTS ON-SITE. REFER TO SPFP FOR WHAT EACH INSPECTION SHALL CONSIST OF.
- THE CONTRACTOR SHALL RESTORE GRASS AREAS AS DIRECTED BY THE OWNER AND THE ENGINEER.
- DETAIL DIMENSIONS FOR STORMWATER QUALITY TREATMENT MEASURES ARE LOCATED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MEET THE REQUIREMENTS OF NYSDEC STORMWATER SPDES GP-02-01 PERMIT.



CALL BEFORE YOU DIG, DRILL OR BLAST
 NO LESS THAN TWO WORKING DAYS NOTICE
IT'S THE LAW!

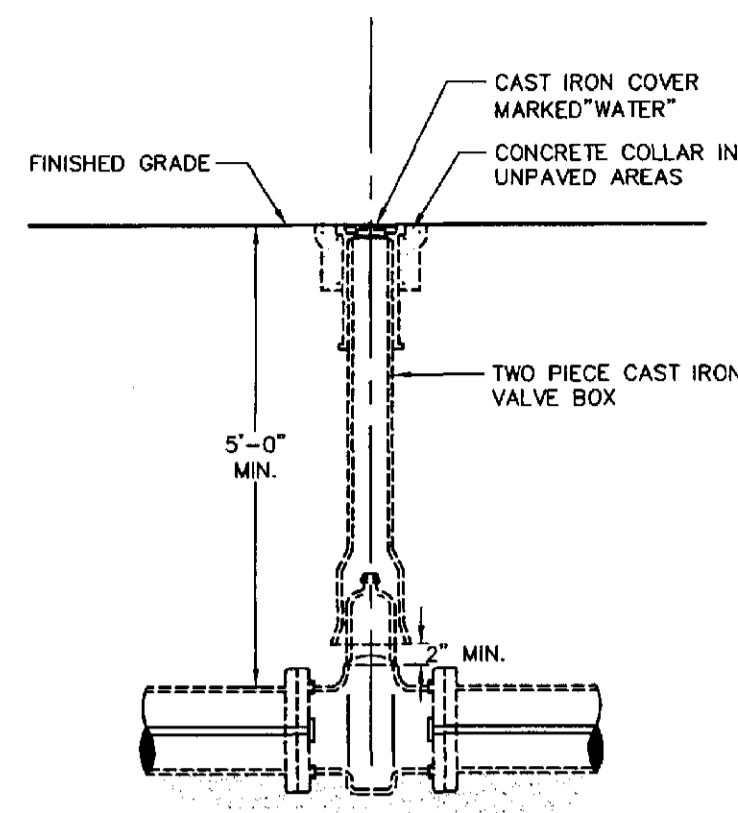
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STORM SEWER DETAILS			
Project No: 05027.00	Date: 06-07-05	Scale: AS SHOWN	
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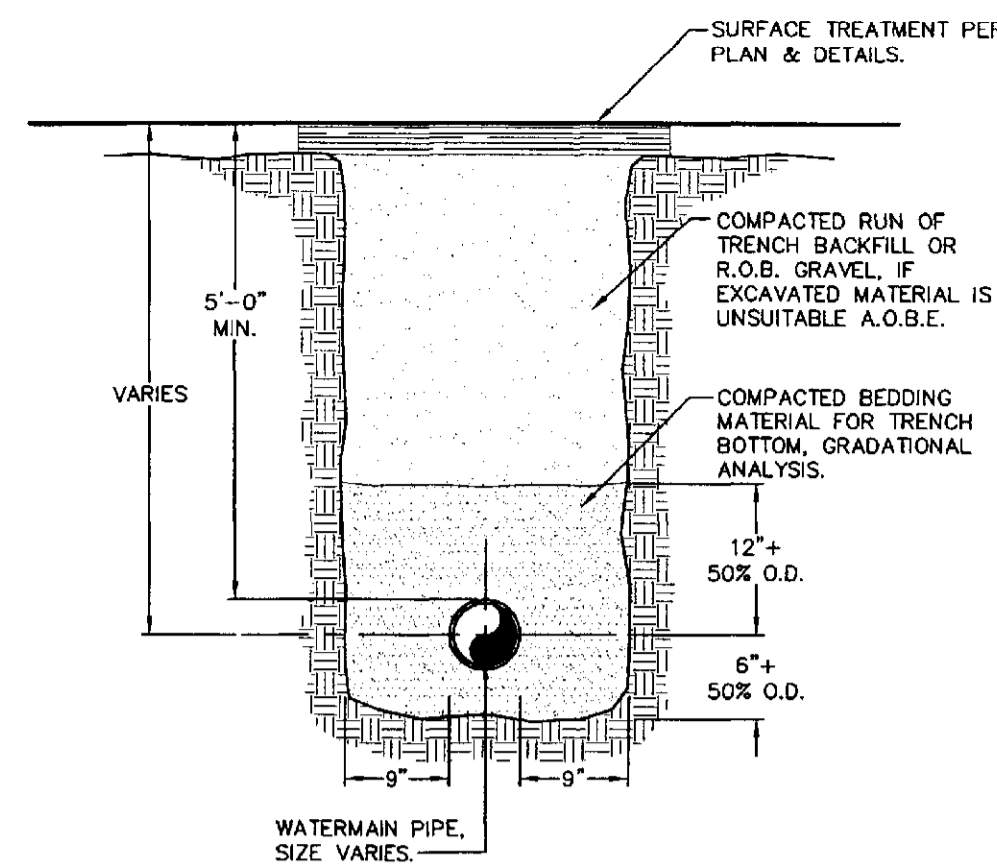
- NOTES:**
1. WET TAP OF PUBLIC WATER MAIN SHALL BE PERFORMED UNDER THE SUPERVISION OF REGULATORY AGENCY.
 2. TAPPING SLEEVE AND VALVE SUPPORT SHALL BE COORDINATED WITH REGULATORY AGENCY.
 3. MINIMUM DISTANCE TO JOINTS, FITTINGS OR OTHER WET TAPS OR STOPS SHALL BE MAINTAINED AS PER REGULATORY AGENCY.

1 TAPPING SLEEVE AND VALVE DETAIL
D3 SCALE: NOT TO SCALE



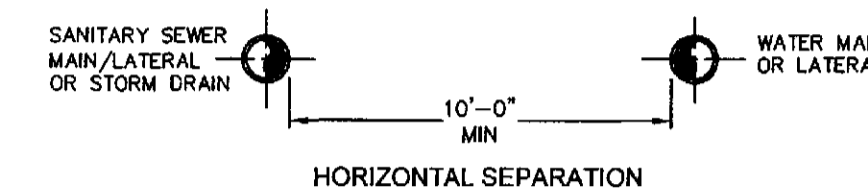
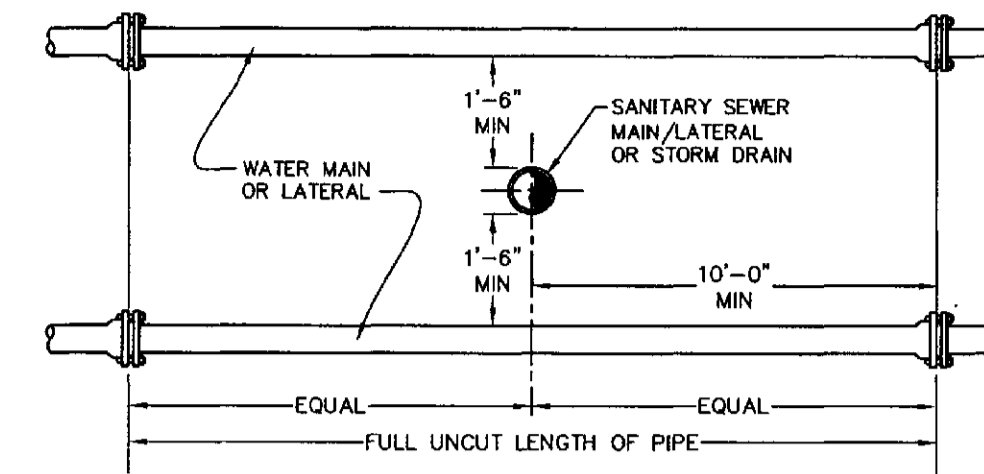
- NOTES:**
1. NON-RISING STEM GATE VALVE, OPERATING DIRECTION TO BE COORDINATED WITH WATER REGULATORY AGENCY.
 2. MINIMUM DISTANCE TO JOINTS, FITTINGS OR OTHER WET TAPS OR STOPS SHALL BE MAINTAINED AS PER REGULATORY AGENCY.

2 TYPICAL GATE VALVE DETAIL
D3 SCALE: NOT TO SCALE



- NOTES:**
1. PIPE BEDDING SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND GRADED FROM FINE TO COARSE PARTICLES, OR A GRADED MIXTURE OF CRUSHED STONE OR CRUSHED GRAVEL. BEDDING MATERIAL OR STONE GRADATIONS USED SHALL BE APPROVED BY THE ENGINEER.
 2. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER SERVICE PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING.
 3. THE PROPOSED WATERMAINS SHALL BE INSTALLED WITH A MINIMUM COVER OF FIVE (5) FEET AND SHALL BE CEMENT LINED DUCTILE IRON, CLASS 52.
 4. SHEETING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

3 TYPICAL WATER PIPE IN TRENCH DETAIL
D3 SCALE: NOT TO SCALE



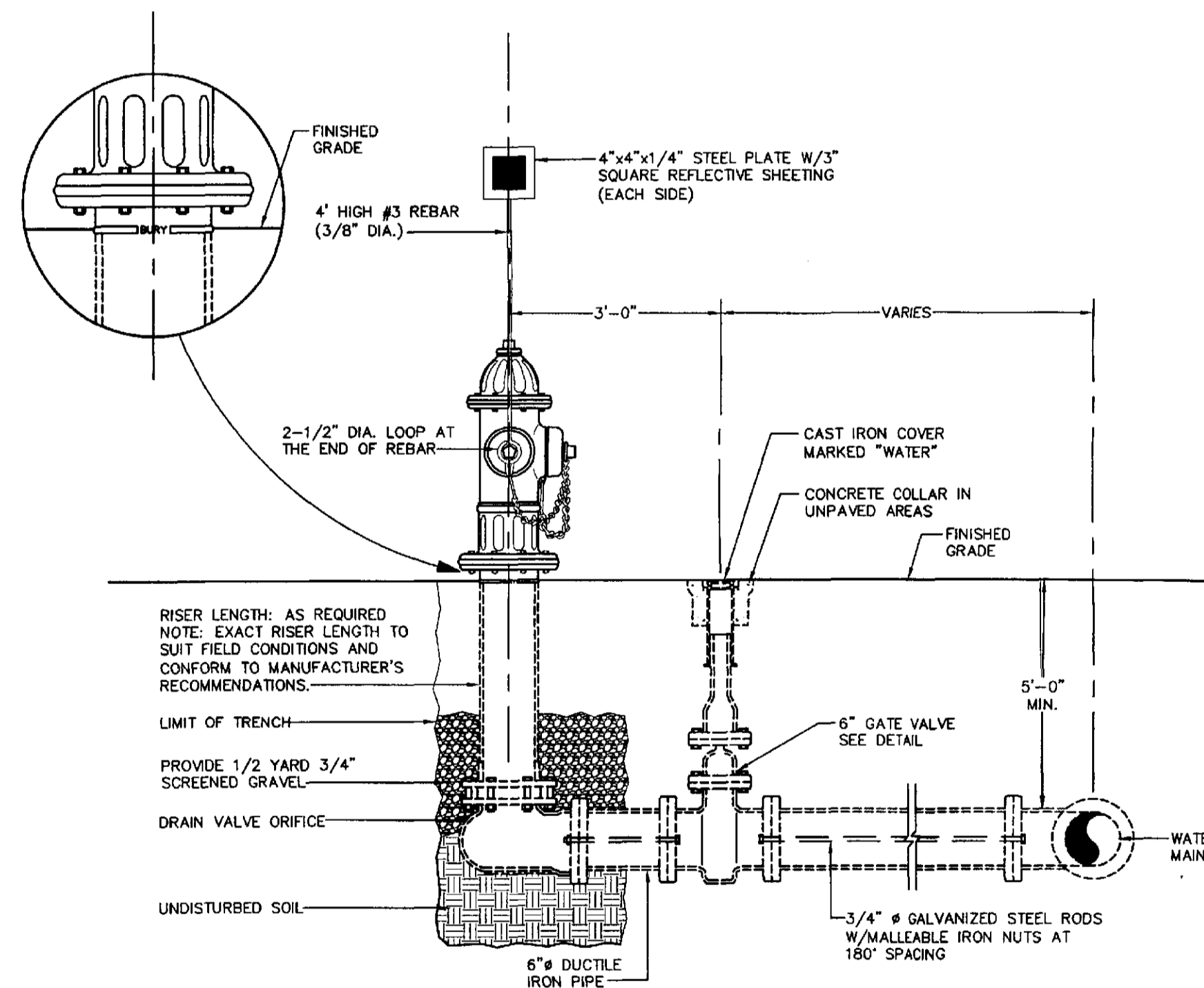
- NOTE:**
1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE ORANGE COUNTY DEPARTMENT OF HEALTH. CONCRETE ENCASEMENT OF WATERLINE OR OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE SEPARATION DISTANCES CANNOT BE MAINTAINED.

4 SANITARY/STORM SEWER AND WATERMAIN SEPARATION DETAIL
D3 SCALE: NOT TO SCALE

SCHEDULE OF JOINT RESTRAINT (NO. OF PIPE LENGTHS - 18' LENGTH)				
PIPE SIZE (INCHES)	90°	45°	22 1/2°	TEE
8"	4	2	1	4
6"	2	1	1	2

- NOTES:**
1. FOR PLUGS, RESTRAIN PIPE LENGTH GIVEN FOR 90° BEND.
 2. LENGTH OF PIPE TO BE RESTRAINED IS THE LENGTH FOR EACH SIDE OF THE FITTING, I.E. FOR 6" PIPE A 90° BEND SHALL BE RESTRAINED TWO (2) LENGTHS ON EACH SIDE OF THE BEND.
 3. WHERE WATERMAINS ARE TO BE DUCTILE IRON, ALL JOINTS SHALL BE RESTRAINED TYPE USING FIELD LOCK GASKETS AND MEGALUG OR MECHANICAL JOINTS. IN ACCORDANCE WITH THE LENGTHS SHOWN IN THE TABLE ABOVE.
 4. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR RESTRAINT SYSTEMS WITH PIPE SIZES LARGE THAN 8".
 5. THE ABOVE CALCULATIONS ARE BASED ON 125 PSI WATER PRESSURE AND SOILS HAVING A BEARING CAPACITY OF 2000 POUNDS PER SQUARE FOOT.

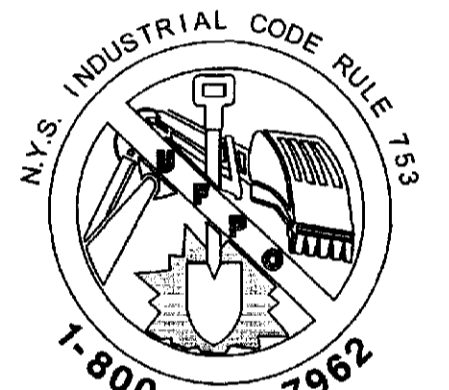
5 JOINT RESTRAINT SCHEDULE AND NOTES
D3 SCALE: NOT TO SCALE



6 HYDRANT ASSEMBLY DETAIL
D3 SCALE: NOT TO SCALE

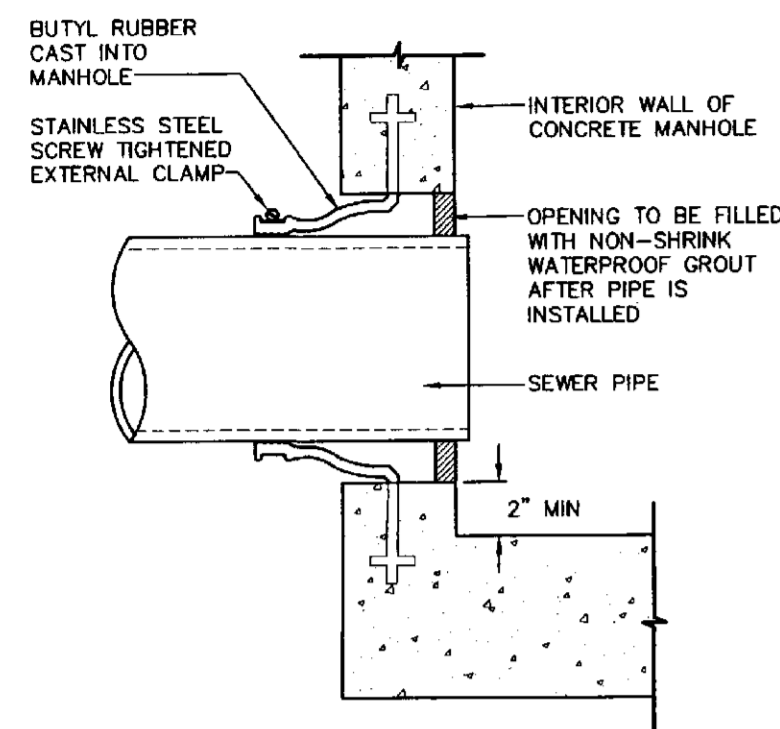
WATER NOTES:

1. ALL WATER LINES SHALL BE DUCTILE IRON PIPE, CLASS 52 UNLESS OTHERWISE SPECIFIED BY OR APPROVED BY THE TOWN OF Poughkeepsie WATER DEPARTMENT. JOINTING SHALL EMPLOY "MEGALUG" CONNECTIONS, LOCK-JOINT PIPE, OR AS ALTERNATIVELY SPECIFIED BY THE TOWN WATER DEPARTMENT. ALL WATER PIPING CONSTRUCTION SHALL BE TO THE SPECIFICATIONS OF THE TOWN WATER DEPARTMENT.
2. THE WATER LINE MAY BE FLEXED WITHIN PIPE SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE CROSSINGS WITH THE SANITARY LINE OCCUR, TO ACHIEVE THE REQUIRED 1.5' VERTICAL SEPARATION DISTANCE. IF THIS DISTANCE CANNOT BE REASONABLY ACHIEVED, THE CONTRACTOR SHALL EITHER CUT AND JOINT THE PIPE OR CONCRETE ENCASE BOTH LINES 10' IN EACH DIRECTION. (SEE WATERLINE OFFSET DETAIL FOR FURTHER INFORMATION).
3. ALL NEW WATER MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C 600 (LATEST REVISION) AT A PRESSURE OF 150 PSI, OR 1.25 TIMES THE WORKING PRESSURE OF THE SYSTEM AS A MINIMUM. ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 4.2 OF SAID AWWA SPECIFICATION.
4. APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER AWWA SECTION C 601, AS DIRECTED BY THE TOWN WATER DEPARTMENT.
5. THE FACILITY WILL BE CONSTRUCTED WITH WATER CONSERVING PLUMBING FIXTURES.
6. THE WATERMAIN IS TO BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH OR LOW POINTS.

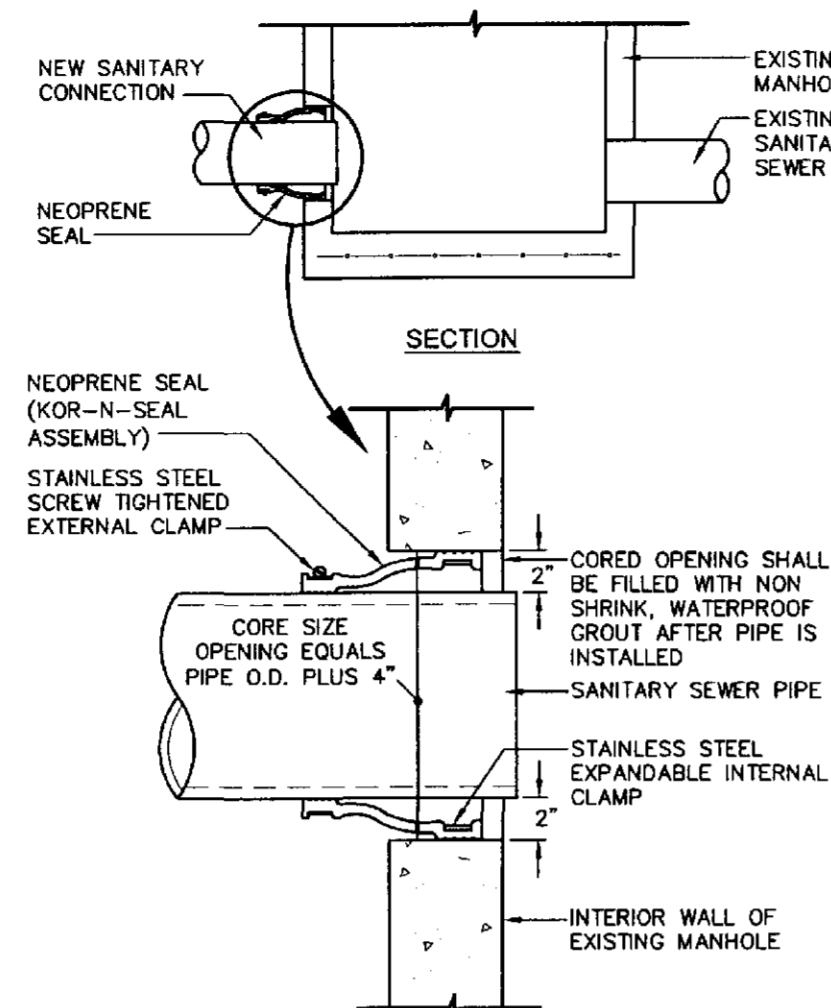


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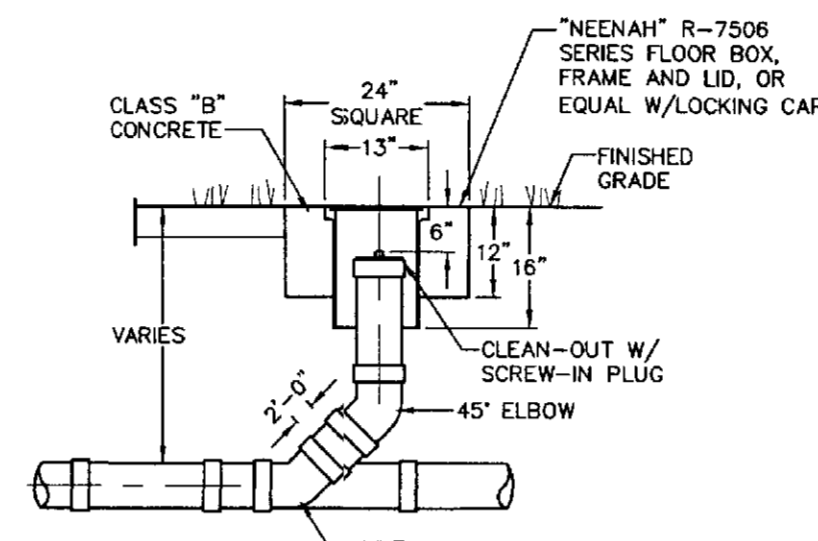
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PROJECT NAME:			
NEW WINDSOR BUSINESS PARK PROPOSED OFFICE BUILDING			
TOWN OF NEW WINDSOR			
Prepared for:			
NEW WINDSOR BUSINESS PARK ASSOCIATES			
TITLE OF DRAWING:			
WATER DETAILS			
Project No: 05027.00	Date: 06-07-05	Scale: AS SHOWN	
	File Name: D1-05027	DRAWING NO:	
	Design By: DEC	D3	
	Checked By: KAD	Sheet 9 of 11	
	Drafted By: DEC		



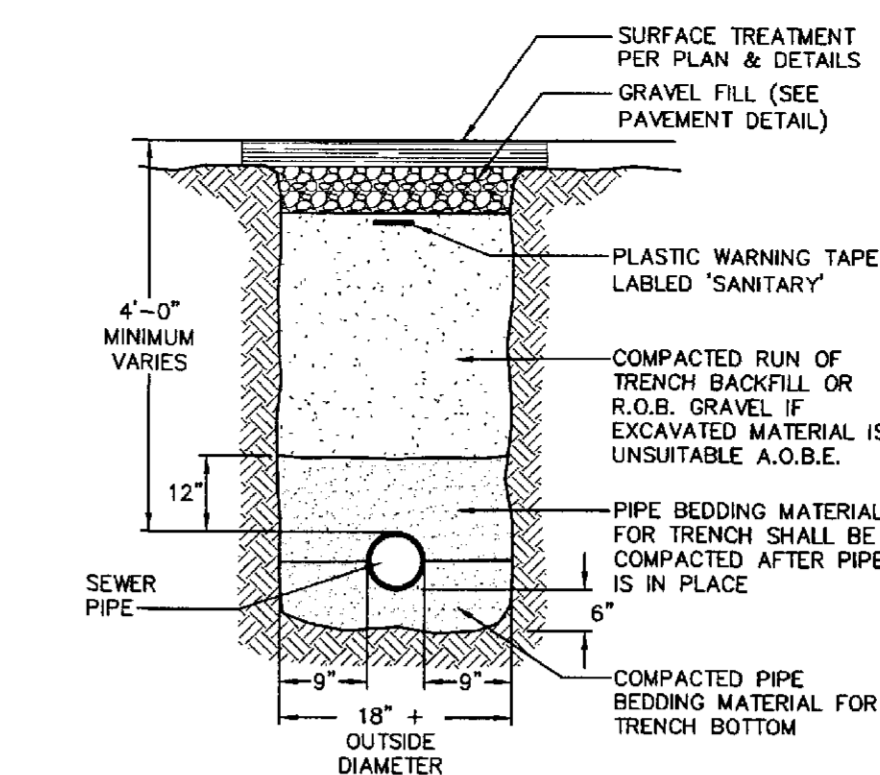
1 FLEXIBLE SLEEVE DETAIL
D4 SCALE: NOT TO SCALE



2 EXISTING MANHOLE
CORE BORE AND BOOT DETAIL
D4 SCALE: NOT TO SCALE



3 CLEAN OUT DETAIL
D4 SCALE: NOT TO SCALE



4 TYPICAL SANITARY LINE IN TRENCH DETAIL
D4 SCALE: NOT TO SCALE

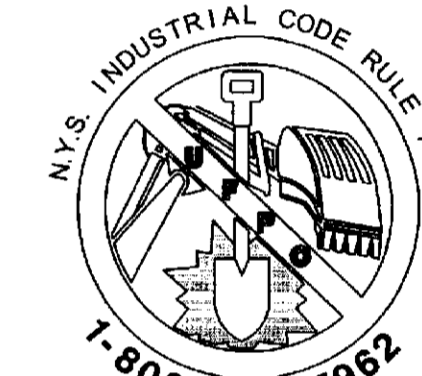
NOTES:

- PIPE BEDDING MATERIAL SHALL BE COMPOSED OF CRUSHED STONE OR GRAVEL FREE OF SOFT NONDURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES WITH THE FOLLOWING GRADATION REQUIREMENTS:
- BEDDING MATERIAL SHALL BE STOCKPILED.
- INSTALL CONTINUOUS PLASTIC UNDERGROUND WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND SANITARY SERVICE PIPING. LOCATE 12 INCHES BELOW FINISHED GRADE, DIRECTLY OVER PIPING.

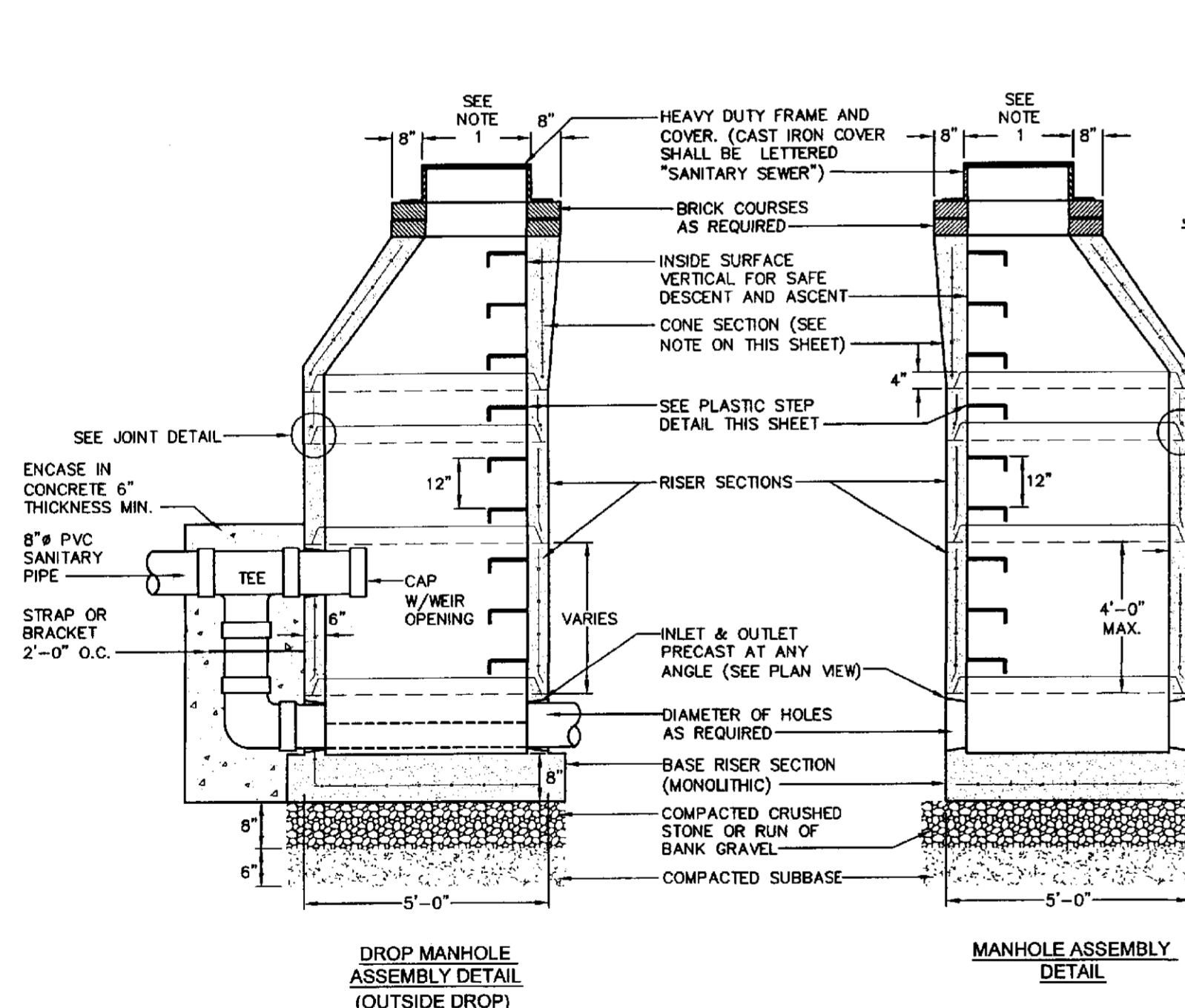
SIEVE DESIGNATION	% PASSING
2"	100
1"	95 - 100
1/4"	0 - 15
No. 40	0 - 5

SANITARY NOTES:

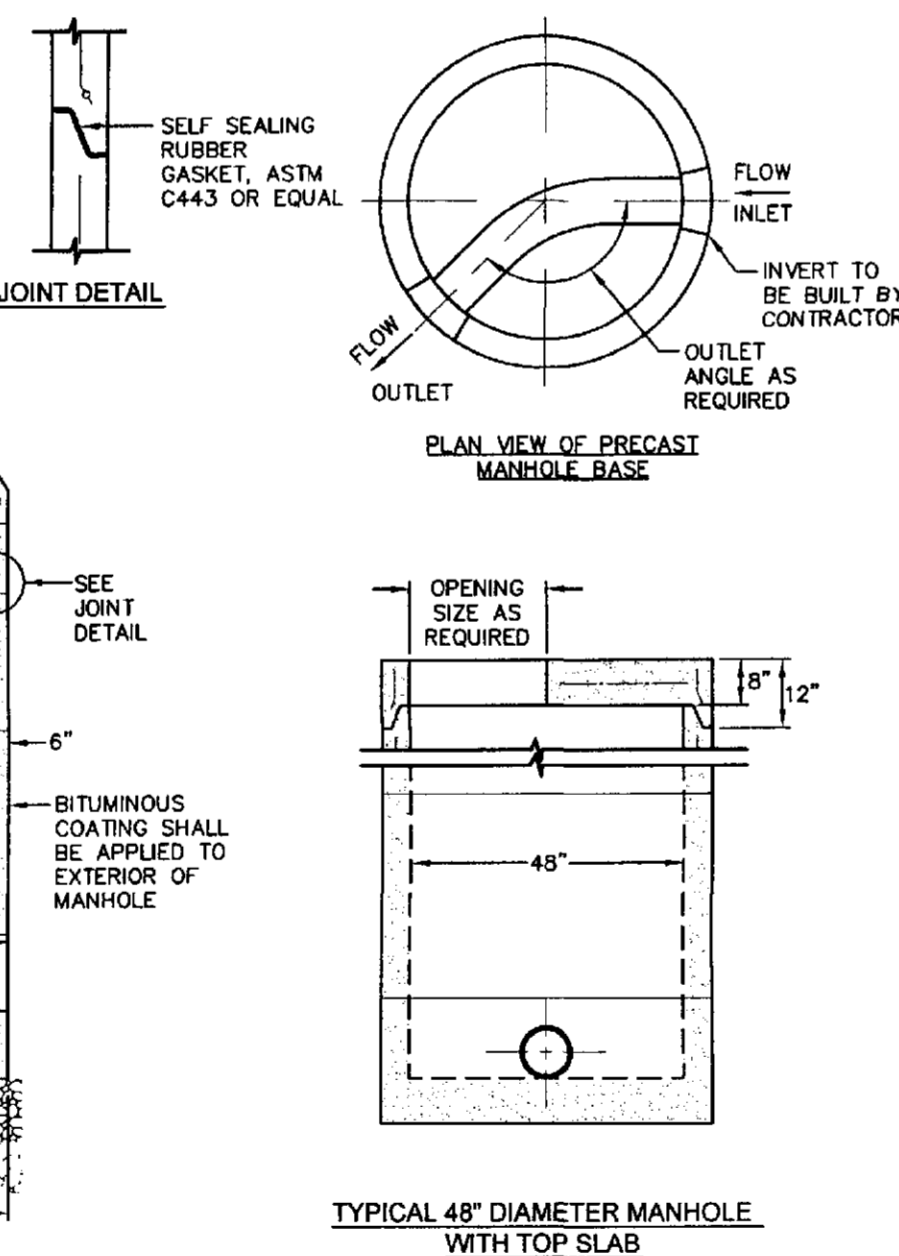
- ALL SANITARY GRAVITY PIPE SHALL BE SDR 35. ALL SANITARY FORCE MAINS SHALL BE SDR 26 AND SHALL BE SEPARATED A MINIMUM OF TEN (10) HORIZONTAL FEET FROM THE WATERMAIN. IF FOR SOME REASON, THIS SEPARATION CANNOT BE ACHIEVED, SANITARY SEWER PIPE IN THIS AREA SHALL BE SDR 26 PRESSURE RATED PIPE. ALL SANITARY SEWER CONSTRUCTION SHALL BE TO THE SPECIFICATIONS OF THE TOWN SEWER DEPARTMENT.
- ALL NEW SANITARY SEWER LINES SHALL PASS A LOW PRESSURE AIR TEST AND ALL NEW SANITARY SEWER MANHOLES SHALL PASS HYDROSTATIC TESTS AS DIRECTED BY THE TOWN SEWER DEPARTMENT.
- ALL NEW SANITARY SEWER MANHOLE COVERS SHALL BE 24" DIAMETER CAST IRON AND SHALL READ "SANITARY SEWER".
- ALL SANITARY SEWER SYSTEM COMPONENTS SHALL BE INSTALLED BY OR UNDER THE SUPERVISION OF A TOWN LICENSED PLUMBER IN ACCORDANCE WITH THE TOWN PLUMBING CODE.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE TOWN SANITARY SUPERINTENDENT PRIOR TO BACKFILLING. ALL NEW SANITARY FORCE MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C 600-82 (LATEST REVISION) AT A PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 4.2 OF SAID AWWA SPECIFICATION.
- ALL NEW SANITARY FORCE MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C 600-82 (LATEST REVISION) AT A PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 4.2 OF SAID AWWA SPECIFICATION.



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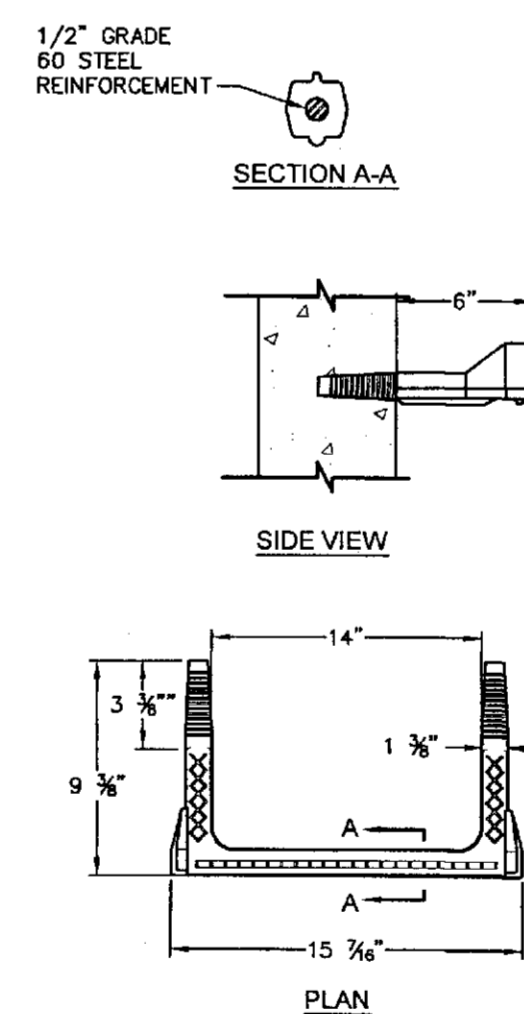


5 TYPICAL SANITARY MANHOLE ASSEMBLY DETAILS
D4 SCALE: NOT TO SCALE



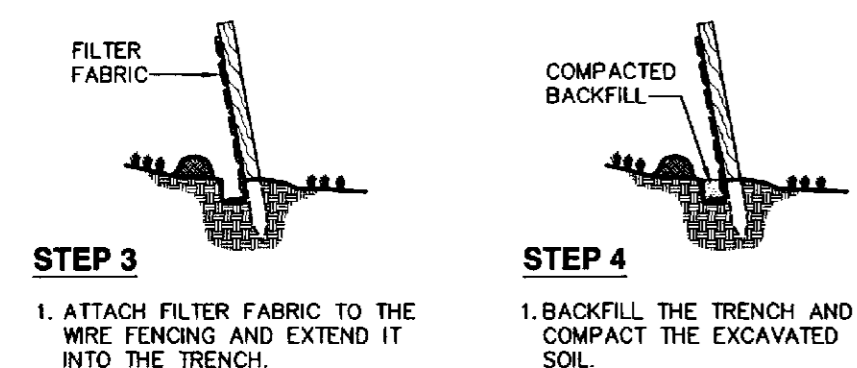
6 PLASTIC MANHOLE
STEP DETAIL
D4 SCALE: NOT TO SCALE

- NOTES:
- CONE DIMENSIONS
 - INVERT SHALL BE FILETED.
 - REINFORCEMENT FOR MANHOLE AND SLAB TOP SHALL BE DESIGNED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. STRUCTURE SHALL BE DESIGNED FOR H-20 VEHICULAR LOADING AND 25% IMPACT.
 - CONCRETE TO TEST 4000 P.S.I. AT 28 DAYS IN CONFORMANCE WITH A.S.T.M. C-478-68.
 - BENCH SHALL BE BUILT BY CONTRACTOR FOR FLOW BETWEEN INLET AND OUTLET.
 - EACH MANHOLE EXTERIOR SHALL RECEIVE TWO BITUMINOUS COATS.
 - FRAME AND COVER SHALL BE DESIGNED FOR H-20 VEHICLE LOADING AND 25% IMPACT.
 - INLET AND OUTLET OF PIPES SHOWN ON PLAN VIEW OF BASE ARE NOT NECESSARILY TYPICAL OF ALL MANHOLES. REFER TO UTILITY PLAN FOR INLET AND OUTLET DIRECTIONS.

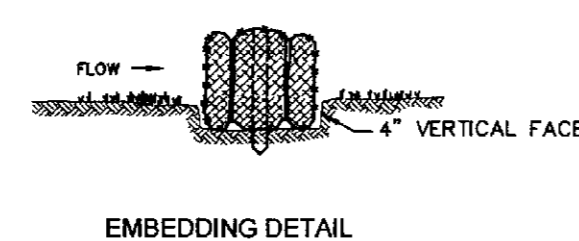


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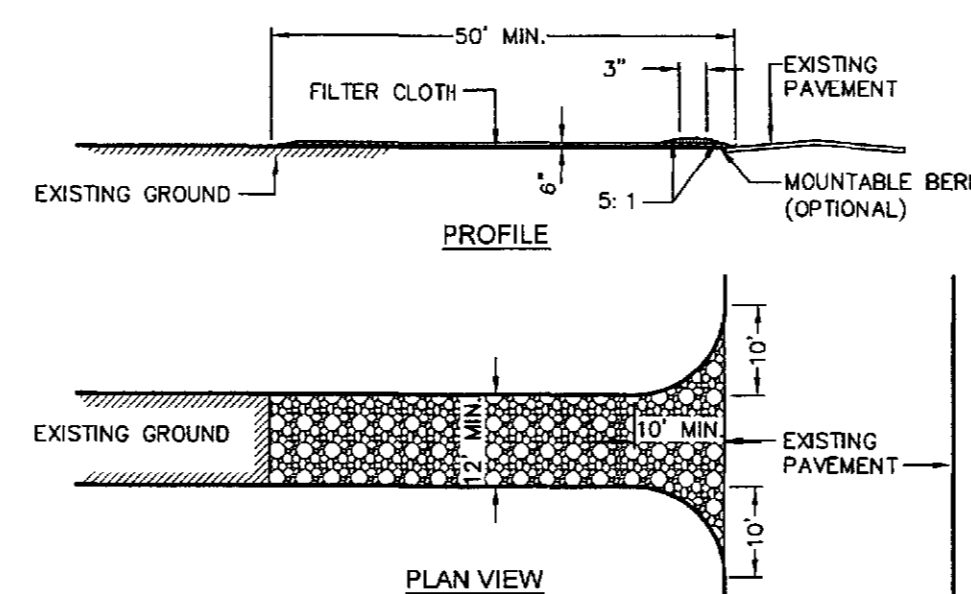
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TOWN OF NEW WINDSOR			
Prepared for:			
NEW WINDSOR BUSINESS PARK ASSOCIATES			
TITLE OF DRAWING:			
SANITARY SEWER DETAILS			
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05027.00	06-07-05	AS SHOWN	
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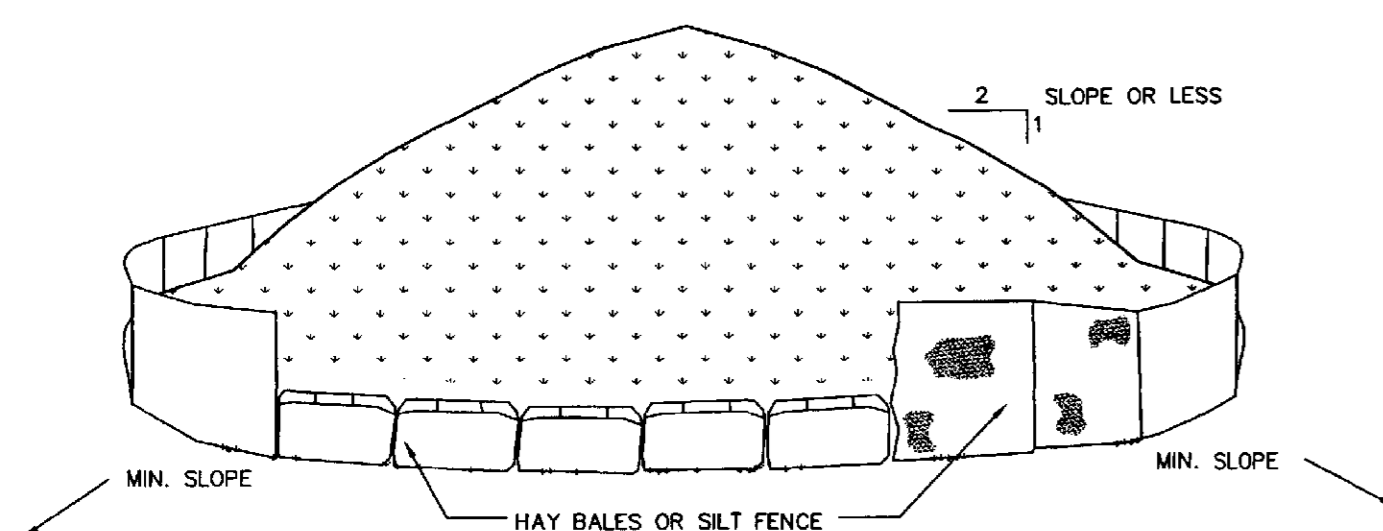
1. FILTER FABRIC SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
4. FENCE POSTS SHALL BE "I" OR "U" TYPE OR 2" HARDWOOD.
5. WIRE FENCE SHALL BE 14 1/2 GA., 6" MAX. MESH OPENING.
6. FILTER CLOTH SHALL BE MIRAFI 100X OR APPROVED EQUAL.



1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY BUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
6. HAY BALES SHALL BE PLACED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT



1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. THICKNESS - NOT LESS THAN SIX (6) INCHES.
3. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50'.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED AGAINST THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTAINABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT SHALL BE REQUIRED. SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1 : 2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE AND HAY BALES.



EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE					
STRUCTURE	DAILY	WEEKLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION	AFTER COMPLETION OF CONSTRUCTION
SILT FENCE BARRIER	--	INSPECT	INSPECT	CLEAN/ REPLACE	REMOVE
STABILIZED CONSTRUCTION ENTRANCE	INSPECT	--	INSPECT	CLEAN/ REPLACE	REMOVE
LANDLOCK 40GTG	--	INSPECT	INSPECT	REPAIR	PERMANENT
CHECK DAMS	--	INSPECT	INSPECT	CLEAN/ REPLACE STONE	REMOVE
DUST CONTROL	INSPECT	--	--	MULCHING/ SPRAYING WATER	NA
VEGETATIVE ESTABLISHMENT	--	INSPECT	INSPECT	WATERING/ RE-SEEDING/ RE-MULCHING	PERMANENT
RIPRAP OUTLET PROTECTION	--	INSPECT	INSPECT	CLEAN/ REPLACE STONE	PERMANENT
SEDIMENT TRAP	--	INSPECT	INSPECT	REMOVE SEDIMENT/ REGRAVING	REMOVE
TEMPORARY DIVERSION SWALE	--	INSPECT	INSPECT	REMOVE SEDIMENT/ RESEEDING	REMOVE
HAY BALES	--	INSPECT	INSPECT	REPLACE	REMOVE

STABILIZED CONSTRUCTION ENTRANCE:
INSPECT THE ENTRANCE PAID EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT THAT EQUALS OR EXCEEDS 1/2 INCH. CHECK FOR MUD, SEDIMENT BUILDUP, AND PAID INTEGRITY. MAKE DAILY INSPECTIONS DURING WEATHER. RESHAPE PAID AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED TO SITE BY VEHICLES. WHEN NEEDED, REMOVE MUD AND SEDIMENT FROM THE EXPOSED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

INSPECT FOR DAMAGE EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT THAT EQUALS OR EXCEEDS 1/2 INCH. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY. REMOVE SILT FENCE AS PER APPROVAL OF TOWN ENGINEER AND PROJECT ENGINEER.

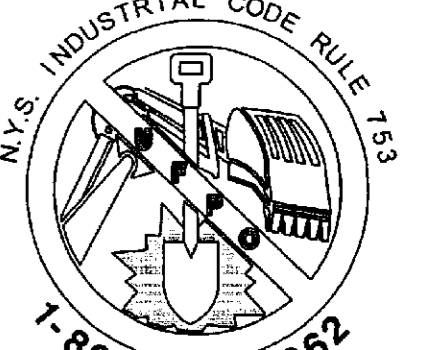
INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAYBALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT THAT EQUALS OR EXCEEDS 1/2 INCH. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE TOP OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFLICTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE THE ERODED AREA TO STABILIZE SOIL LOSS. REMOVE SEDIMENT FROM THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

INSPECT CHECK DAMS EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT
HAT EQUALS OR EXCEEDS 1/2 INCH. IF SIGNIFICANT EROSION HAS OCCURRED
BETWEEN STRUCTURES A LINER OF STONE OR OTHER SUITABLE MATERIAL
SHOULD BE INSTALLED TO PREVENT EROSION. REMOVE SEDIMENT
ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN
THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING
SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE
DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER
APPROVAL OF TOWN ENGINEER AND PROJECT ENGINEER.

(IF REQUIRED)—INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND CONSTRUCT NEW PITS AS NEEDED.

STONE FILTER: SEE MAINTENANCE SCHEDULE FOR CHECK DAMS.



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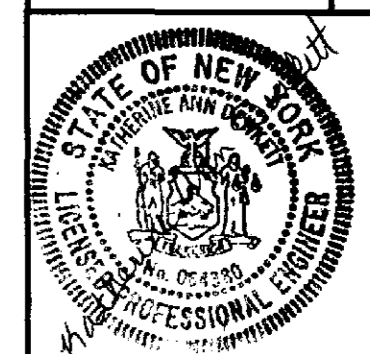
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PROJECT NAME:
NEW WINDSOR
BUSINESS PARK
PROPOSED OFFICE BUILDING

TOWN OF NEW WINDSOR
Prepared for:
NEW WINDSOR BUSINESS PARK ASSOCIATES

TITLE OF DRAWING:
SEDIMENTATION AND EROSION
CONTROL DETAILS

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